| Form 9-331 C                           |  | _                         | SUBMIT IN TRIP                     | Budget Bureau   | l.<br>No. 42-R1425.                    |
|--|--|---------------------------|------------------------------------|---|--|
| (May 1963)                             | UNIT   | ED ATES                   | (Other Instructio<br>reverse side) |   | M. 112                                 |
|  | DEPARTMENT   | OF THE INTER              | IOR                                | 5. LEASE DESIGNATION  | AND SEBIAL NO.                         |
|  | GEOLOG   | GICAL SURVEY              |                                    | 6. IF INDIAN, ALLOTTER  | 50(0)                                  |
|  | ION FOR PERMIT T   | O DRILL, DEEPE            | N, OR PLUG BA                      | CK 6. IF INDIAN, ALLOTTEE   | OR TRIBE NAME                          |
| 18. TYPE OF WORK                       |  |                           |                                    |   |  |
|  | DRILL  | DEEPEN 🗌                  | PLUG BACK                          |   |  |
| <b>b. TYPE OF WELL</b><br>OIL [V]      | GAS [-]  |                           | NGLE MULTIPLE                      | S. FARM OF LEASE NAM  |  |
| WELL                                   | WELL OTHER   |                           |                                    | SOUTH MAT<br>9. WELL NO.  | TIXUNIT                                |
| 4                                      | PRODUCTION<br>ATOR                                       | COMPANY                   |                                    |   |  |
| 3. ADDRESS OF OPER                     | ATOR   |                           |                                    | 29<br>10. FIELD AND POOL. O   | D. WILLDCAM                            |
| P.O. DEM                               | AWER A LEVER   | LLAND, TE                 | r 79336                            |   |  |
| At curface                             |  |                           |                                    | FOWBER UP   | BLK.                                   |
| 1940'FN                                | IL × 810'FEL   | 5EC.22 (5EK               | 4, NE/4), UNIT                     | H AND SURVEY OF AB  | EA                                     |
| At proposed pro                        | d. zone  |                           |                                    | 23-24-37<br>12. COUNTY OF PARISH  | NMPM                                   |
| 14. DISTANCE IN M                      | ILES AND DIRECTION FROM NEAD                             | EST TOWN OR POST OFFICE   | •                                  | 12. COUNTY OF PARISH  |  |
| 15 MI                                  | LES SOUTH OF   | E EUNICE                  | NM                                 | 17. NO. OF ACRES ASSIGNED   | NM                                     |
| LOCATION TO N                          | EAREST   | <b>a</b> 1 a              |                                    | TO THIS WELL  |  |
|  | st drlg, unit line, if any)                              | 10<br>19. PE              | OPOSED DEPTH                       | 20. ROTARY OR CABLE TOOLS   | <u> </u>                               |
| TO NEAREST W                           | ELL DRILLING, COMPLETED,                                 | 1020 3                    | 5800                               | LOTARY  |  |
|  | w whether DF, RT, GR, etc.)                              | 000                       |                                    | 22. APPROX. DATE WO   | RK WILL START*                         |
|  | 3230,7 6   | R                         |                                    |   |  |
| 23.                                    | 1  | PROPOSED CASING ANI       | CEMENTING PROGRAM                  | 1   |  |
| SIZE OF HOLD                           | SIZE OF CASING   | WEIGHT PER FOOT           | SETTING DEPTH                      | QUANTITY OF CEME  | NT                                     |
| 11- 12/14                              | " 8518"  | 24#                       | 1000                               | CIRCULATE   |  |
| 71/8 "                                 | 5'/2"  | 14-15.5#                  | 5745                               | CIRCULATE   |  |
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| apu                                    | reaching TO,   | run logo                  | and evalu                          | iale. Perforance  |  |
| stimu                                  | ate as nece  | ssary to t                | clempt con                         | nate. Perforate   | duction.                               |
|  | PROGRAM: 0.  |                           | VE MUD                             |   |  |
| 10.02                                  |  |                           |                                    | NUM PROPERTIE   | -< T0                                  |
|  | 200.   |                           |                                    |   |  |
|  |  | MACN/                     | AIN GOOD HO                        | LE CONDITIONS,  |  |
| В                                      | OP PROGRAM   | ATTACHED                  |                                    |   |  |
|  | •  | mations have              | CEE                                | ATTACHED FOR  |  |
|  | Unless Drilling Or                                       |                           |                                    | TIONS OF APPROVA  | 1                                      |
|  | Unless Driffing Of<br>Commenced, this dr<br>Expires 10-2 | 4-21                      | CONDIT                             | IUNS OF AFFRUVA   | L                                      |
| 1                                      | Expires_10   | ARATION //                | ALIT WITH IN                       | FLL ND. 18)   |  |
| IN ABOVE SPACE D                       | ESCRIBE PROPOSED PROGRAM : If                            | proposal is to deepen or  | plug back, give data on pro-       | ECL NO, IP)<br>esent productive zone and propos<br>d measured and true vertical dep | ed new productive<br>ths. Give blowout |
| zone. If proposal<br>preventer program | is to drill or deepen direction                          | ally, give pertinent data | Uli Bubbullace locations an        |   | ·····                                  |
| 24.                                    | 1  |                           | 1 1                                | 0   | <b>-</b>                               |
| BIGNED _K                              | muth Brano   | TITLE A                   | Denier Staff                       | ast DATE 6-   | 50-77                                  |
| (This space f                          | or Federal or State office use)                          |                           |                                    |   |  |
| (                                      |  |                           |                                    |   |  |
| PERMIT NO                              |  |                           | APPROVAL DATE                      | APPROVED  |  |
| APPROVED BY _                          |  | TITLE                     |                                    | AS AMENDE   |  |
|  | APPBOVAL, IF ANY :                                       | AL FRUIT                  | L TO FLAPE GRANTED                 | .111 21 1977  |  |
| 0+4-4565,1                             |  | WHILE DRI                 | LLING AND TESTING."                | DEDNIEW   |  |
| I-DIV                                  | I-TENNECO  |                           |                                    | ACTING DISTRICT ENGL  |  |
| 1-KWB                                  | I- ARCO  | "Jee Instruction          | s On Reverse Side                  |   | NEEK                                   |
| 1-CONOCO                               | )  |                           |                                    |   |  |

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# RELET FO

JUL 2 1977

CIL CONSERVATION COMM. HOBBS, N. M.

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# NEW MERICO OIL CONSERVATION COMMISSION WELL LO TION AND ACREAGE DEDICATION PL.

•

Form C+102 Superseder C+128 Effective 1-1-65

|                                 |                              | All distance                     | e must be from   | the outer boun          | derses of ti   | he Section |              |   |
|---------------------------------|------------------------------|----------------------------------|------------------|-------------------------|----------------|------------|--------------|---|
|                                 | PRODUCTION                   | COMPANY                          | Le               | ase<br>Sol              | ith Mat        | tix Un     | it           | Well file 29  |
| Н                               | ection<br>22                 | Township<br>24 S                 | outh             | Range<br>37 Eé          | ist            | ounty.     | Lea          |   |
| ierual Contage Location<br>1940 | on of Well;<br>feet from the | north                            | line and         | 810                     |                | trin, the  | east         |   |
| Fround Level Elev.              | Froducing For                | mation                           | Pœ               | ol.                     |                | ur a. the  |              | Destoated Actenger in                                   |
| 3230,7                          | UPPER                        | 2 VESO                           |                  | FOWLER                  | UPP            | ER YE      | 530          | 80 6.14   |
| 1. Outline the                  | acreage dedica               | ted to the su                    | bject well       | by colored p            | encil or       | hachure    | marks on t   |   |
| interest and                    | royalty).                    |                                  |                  |                         |                |            |              | hereof (both as to workin)<br>f all owners been consoli |
| dated by com                    | umunitization, u             | nitization, foi<br>iswer is "yes | rce-pooling.     | etc?                    |                |            |              | i arr owners been consoli                               |
|                                 |                              | 184 CT 15 9 CB                   | , type of co     | insolidation            |                | 1116       | <i>7 D</i>   |   |
| If answer is                    | "no" list the                | owners and tr                    | act descript     | ions which              | have acti      | ially bee  | n consolid   | ated. (Use reverse side o                               |
| this form if n                  | ecessary.)                   |                                  |                  |                         |                |            |              |   |
| No allowable                    | will be assigned             | ed to the well                   | until all int    | erests have             | been co        | nsolidate  | ed (by com   | munitization, unitization                               |
| forced-pooling<br>sion.         | g, or otherwise)             | or until a non                   | -standard un     | ut, eliminat            | ing such       | interest   | s, has been  | approved by the Commis                                  |
| ə 1011,                         |                              |                                  |                  |                         |                |            | 1            |   |
|                                 | 1                            |                                  |                  | 1                       | 4              |            |              | CERTIFICATION   |
|                                 | ł                            |                                  |                  | 1                       |                |            |              |   |
|                                 | l I                          |                                  |                  | 1                       |                |            |              | certify that the information con                        |
|                                 | 1                            |                                  |                  | 1                       |                |            |              | rein is true and complete to th                         |
|                                 | 4                            |                                  |                  | 1                       | 940            |            | best of m    | y knowledge and belief.                                 |
|                                 | 1                            |                                  |                  |                         | <u></u>        |            |              |   |
|                                 | · +                          |                                  |                  |                         | $ \downarrow $ | ~~~        | Nane         |   |
|                                 | ł                            | ł                                |                  |                         | 1              | 1          | Ken          | neth Brand  |
|                                 | \$                           | <b>\$</b>                        |                  | •                       |                | 2          | F Sitter     | with Brand  |
|                                 | 1                            | 1                                | #18              | i                       | 81             | 0'         | Cont my      | a stay assistan   |
|                                 | i                            | . {                              | •                | l                       | - 0.           |            | Amoco.       | PRODUCTION COMPA  |
| COMPANIO                        | N WELL TO *                  | *18 }                            | •                | ا<br>(م <sup>ت</sup> مو |                |            | E the        |   |
|                                 | 1                            | 2                                | , • •            | •                       |                |            |              | 6-30-77   |
|                                 | I                            | · ·                              | ~~~~~            |                         |                |            |              |   |
|                                 | •                            |                                  |                  | l                       |                |            | . I hereby   | certify that the well focation                          |
|                                 | i                            |                                  |                  | 1                       |                |            |              | this plat was plotted from field                        |
| :                               | ł                            |                                  | 1                | C O TON                 |                |            | notes of     | actual surveys made by me a                             |
|                                 | 1                            |                                  | 6 F. 1. 31       |                         |                |            | -            | supervision, and that the same                          |
|                                 | 1                            | 6                                | Spension 100     | . O'L                   | <b>\</b>       |            |              | nd correct to the best of my                            |
|                                 |                              |                                  | 1                |                         | <u></u>        |            | know iedge   | and belief.   |
|                                 |                              |                                  | 3 CS             | 5   15                  |                |            |              |   |
|                                 | E .                          |                                  |                  | h /2                    | 42             |            | Date Survey  | ed  |
|                                 | I                            |                                  | $\sum_{\lambda}$ | 5319 / J                |                |            |              | 9, 1977   |
|                                 | t a                          |                                  | NY NY NY         | N. P.C.                 |                |            |              | rofessional Engineer                                    |
|                                 | • .<br>•                     |                                  |                  |                         |                |            | and or Land  | Surveyor  |
|                                 | ł                            |                                  |                  | ł                       |                |            | Ja           | h-lillit A  |
|                                 |                              |                                  |                  |                         |                |            | eruli: 110 ; | mu way  |
| 330 660 92                      | 1320 1450 1680               | 2310 2840                        | 2000             | 1600 1000               | - T -          | I (        |              | 676   |

# CLILLET TED

JUL 2 1977

OIL CONSERVATION COMM. HOBBS, N. M.

# Attachment to "Application for Permit to Drill" Form 9-331 C

| Township 24 South, Range 37 East, Lea County, New Mexico   |
|--|
| Location (See Attached Form C-102)   |
| Elevation (See Attached Form C-102)  |
| Geologic name of surface formation<br>Unknown  |
| Type of drilling tools and associated equipment to be utilized.<br>(See Form 9-331 C)  |
| Proposed drilling depth. (See Form 9-331 C)  |
| Estimated tops of important geologic markers.<br>Anhydride 1150  |
| San Andres 3880  |
| Glorietta 4820   |
|  |
| Upper Yeso 5090  |
| Upper Yeso 5090  |
| Upper Yeso 5090<br>Estimated depths at which anticipated water, oil, gas or other mineral bearing<br>formations are expected to be encountered.<br>San Andres 3880                   |
| Upper Yeso 5090<br>Estimated depths at which anticipated water, oil, gas or other mineral bearing<br>formations are expected to be encountered.<br>San Andres 3880<br>Glorietta 4820 |

10. Operator's minimum specifications for pressure control equipment which is to be used, a schematic diagram thereof showing sizes, pressure ratings (or API series) and the testing procedures and testing frequency. (See Attached BOP Program)

11. Type and characteristics of the proposed circulating medium or mediums to be employed for rotary drilling and the quantities and types of mud and weighting material to be maintained.

0 - Surface Casing Point -- Native Mud

.

SCP - TD -- Brine with minimum properties to maintain good hole conditions.

12. Testing, logging and coring programs to be followed with provisions made for required flexibility.

Gamma Ray - Compensated Neutron - Formation Density, Caliper - Dual laterolog with Micro-SFL.

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13. Any anticipated abnormal pressures or temperatures expected to be encountered or potential hazards such as hydrogen sulfide gas, along with plans for mitigating such hazards.

14. Anticipated starting date and duration of operation. ASAP

15. Other facets of the proposed operation, operator wishes to point out for the Geological Survey's consideration of the application.

None

# ATTACHMENT TO FORM 9-331C

| LEASE    | South Mattix Unit Federal | WELL NO. 29      |
|----------|---------------------------|------------------|
| LOCATION | Unit H, Sec. 22, T-24-S,  | R-37-E           |
| P00L     | Fowler Upper Yeso         |                  |
| COUNTY   | Lea                       | STATE New Mexico |

The undersigned hereby states that Amoco's representative, Mr. J.H. Hankins, personally contacted <u>Mrs. R. J. Doom, Eunice, NM</u>, the owner/lease of the surface land where the proposed work is to be conducted and advised him of the proposed work, the construction site and pertinent roads included in the project. It is further stated that, upon being fully advised of the extent of the work and the effect upon the surface, said owner has consented to the said work and that agreement as to the compensation for damages to the surface estate has been reached.

Brand Kenneth Brand

Senior Staff Assistant

6-30-77

Date

- 1. Blow-out preventers and master value to be fluid operated and all fittings pust be in good condites, 3,000# W.P. (0,000 p.s.i. test) inimum.
- Equipment through which bit must pass shall be as large as he inside diameter of the casing that is being drilled through.
- 3. Nipple above blow-out preventer shall be same size as casing being drilled through.
- 4. Kelly cock required, 3,0004 W.P. (6,000 p.s.i. test), minimum.
- OMSCO or comparable safety valve must be available on rig floor at all times with proper connection or sub, 3,000# W.P. (6,000 p.s.i. test), minimum.
- 7. Choke assembly, beyond second value from cross, may be positioned (Optional) outside of derrick foundation.
- 8. Spool or cross may be eliminated if connections are available in the lover part of the blow-out preventer body.
- 9. Plug valves gate valves are optional. Vaives shown as 2" are minimum size.
- 10. Casing head and casing head spool, including attached valves, to be furnished by Pan American.
- 11. Rams in preventers will be installed as follows:

master valve

- When drilling, use: Top Preventer - Drill pipe rams' Bottom Preventer - Blind rams or
- When running casing, use: Top Preventer - Casing rams Bottom Preventer - Biind rams or master valve.



BLOWOUT PREVENTER HOOK-UP PAN AMERICAN PETROLEUM CORP.

EXHIBIT D-I MODIFIED

Proposed Dévelopment Plan for Surface Use

| Amoco Production Company's | South Mattix U | nit Federal | #29, |
|----------------------------|----------------|-------------|------|
| Unit H, Sec. 22, T-24-S, R | - 37-E         | *           |      |

This plan is an attachment to "Application for Permit to Drill" and is a discussion of the possible effects the drilling of this well/wells might have on the environment. A copy will be posted on the derrick floor so that all contractors and sub-contractors will be aware of all items of this plan.

1. Existing roads including location of exit from main highway.

.

Location is approximately 15 miles south of Eunice, New Mexico

2. Planned access roads. (Width, maximum grade, turnout, drainage design, location and size of culverts and surfacing material, where fences will be cut, and where gates or cattleguard will be used.) (See Exhibit B)

\_\_\_\_

\_\_\_\_\_

None

3. Location of existing wells. (See Exhibit B) (2-Mile radius for exploratory wells; 1-Mile radius for development wells)

|                              | Attached Map  |
|------------------------------|---|
|                              |   |
|                              |   |
|                              |   |
| <del></del>                  |   |
|                              |   |
|                              | •   |
|                              |   |
| LULO                         | tion and type of water supply.<br>XWater to be hauledWater to be piped.   |
|                              |   |
| <u> </u>                     | (ISTING WELL ON LEASE YO MILE SOUTH OF LOCATION   |
|                              |   |
|                              |   |
|                              |   |
|                              | •   |
|                              |   |
|                              |   |
|                              |   |
| Sour                         | ce of construction materials.   |
|                              |   |
|                              | ce of construction materials.<br>YONE REQUIRED  |
|                              |   |
|                              |   |
|                              |   |
|                              |   |
|                              |   |
| <br><br>Meth                 | ONE REQUIRED<br>ods for handling waste disposal. Well cuttings will be disposed o   |
| <br><br>Meth                 | ods for handling waste disposal. Well cuttings will be disposed or<br>eserve pit. Suitable trash pits or containers will be provided at   |
| <br>Meth<br>in r<br>loca     | ods for handling waste disposal. Well cuttings will be disposed or<br>eserve pit. Suitable trash pits or containers will be provided at<br>tion for containment. If well is productive, maintenance waste wi  |
| Meth<br>in r<br>loca<br>be p | ods for handling waste disposal. Well cuttings will be disposed or<br>eserve pit. Suitable trash pits or containers will be provided at<br>tion for containment. If well is productive, maintenance waste will<br>laced in special trash cans and hauled away periodically. |
| Meth<br>in r<br>loca<br>be p | ods for handling waste disposal. Well cuttings will be disposed or<br>eserve pit. Suitable trash pits or containers will be provided at<br>tion for containment. If well is productive, maintenance waste wi  |
| Meth<br>in r<br>loca<br>be p | ods for handling waste disposal. Well cuttings will be disposed or<br>eserve pit. Suitable trash pits or containers will be provided at<br>tion for containment. If well is productive, maintenance waste will<br>laced in special trash cans and hauled away periodically. |

|                | -3-  |
|----------------|--|
|                | •  |
| Ancilla<br>Non | ry facilities. (Location of camps and airstrips to be installed.)  |
| Well si        | te layout. (See Attached Rig Layout)   |
| (a<br>(b<br>(c | ) Size of Drilling Location 220' X 150'<br>) Compacted <u>SURFACE SUITABLE FOR PAD</u><br>) Surfaced No  |
| Plans f        | or restoration of surface.   |
| X              | Producing Well - all pits will be cut, filled, and levelled as<br>soon as practical to original condition with rehabilitation to<br>commence following removal of drilling and completion equipment.<br>Rehabilitation to be completed in 45 days if possible.<br>Dry Hole - same as above with dry hole marker to be installed<br>and surface reseeded if required. |
| Other i        | nformation that may be used in evaluating the impact on the enviror  |
| (a             | ) Terrain <u>Flat</u>  |
| (Ъ             | ) SoilSand & Caliche   |
| (c             | ) VegetationSparse   |
| (d             | ) Surface Use Grazing  |
| (e             | ) Ponds and Streams None   |
| (f             | ) Water Wells   WELL 1/2 MILE SOUTH OF LOCATION  |
| (9             | ) Residences and Buildings <u>None</u>   |
| <b>(</b> h     | ) Arroyos, Canyons, etc. <u>None</u>   |
| (i             | ) Well sign Posted at Drilling Site  |
| (j             | ) Open pitsAll pits containing liquid or mud will be fenced.   |
| (k             | ) Archaelogical Resources <u>None Observed</u>   |
|                |  |
|                |  |
|                |  |
|                |  |
|                | •  |
|                | •  |

Sector and the sector of the s

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12. Operators Representative.

(Field personnel responsible for compliance with development plan for surface use.)

O. R. Williams, Area Foreman

P. O. Drawer A

Levelland, Texas 79336

Phone (806) 894-3167

ATTACHMENT TO PROPOSED DEVELOPMENT PLAN FOR SURFACE USE, AND FORM 9-331C

13. <u>Certification</u>: The following statement is to be incorporated in the plan and must be signed by the lessee's or operator's field representative who is identified in Item No. 12 of the plan.

I hereby certify that I, or persons under my direct supervision have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by: <u>Amoco Permetrical Company</u> and its contractors and subcontractors in comformity with this plan and the terms and conditions under which it is approved.

are Jorema



4 31



SHEET NO. OF **moco** Production Company FILE ENGINEERING CHART APPN SUBJECT DRILL SITE DIMENSION DATE 10-29-76 SHALLOW WELLS (LESS THAN 7500') <u>RC</u> Scale - 1" = 60' SOUTH MATTIX UNIT # 29 UNIT H (SEIY NELY) 1940'FNL X 810' FEL SEC.22, T-24-5, R-37-E, LEA COUNTY, NM 230 NOFTH PITS -400' 50 CALICHED SUBSTRUCTUFE AREA 230 HOLE 100 8 LIGHT PLANT 120 100 170' PRODUCTION FACILITIES TO BE LOCATED 2' WIDE ROAD HERE IF WELL IS PRODUCTIVE (TANKS, SEPARATORS, TREATERS, DEHYDRATORS, ETC.) CELLAR SIZE 5 x 5 x 4

# Archaeological Clearance Report

for

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Amoco Production Company

South Mattix Unit #29 South Mattix Unit #28 South Mattix Unit #27

.

by

Rodrick B. MacLennan

Submitted by

Dr. J. Loring Haskell Operations Director and Principal Investigator Agency of Conservation Archaeology Eastern New Mexico University Portales

27 June 1977

#### INTRODUCTION

The Agency of Conservation Archaeology, Eastern New Mexico University, Protales, recently completed an archaeological reconnaissance southeast of Eunice, Lea County, New Mexico, on lands administered by the Bureau of Land Management. The areas surveyed will be impacted by the construction of companion wells and drill pads.

The survey was initiated at the request of Amoco Production Company and was administered by Mr. Kenneth Brand, representative for Amoco Production Company, and Dr. J. Loring Haskell, Operations Director and Principal Investigator, Agency of Conservation Archaeology, Eastern New Mexico University, Portales.

The survey was accomplished by Rodrick B. MacLennan on 22June 1977 under Federal Antiquities Permit No. 77-NM-021.

#### SURVEY TECHNIQUE

The survey was completed by the archaeologist walking a series of transects in a zigzag pattern the length and breadth of the drill pad. This technique permitted optimal examination of the areas of primary and secondary impact.

# South Mattix Unit #29

#### LOCATION

The drill pad will measure 400 ft by 400 ft and will be centered in the: SE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub>, Section 22, T24S, R37E, NMPM, Lea County, New Mexico (BLM) Map Reference: USGS Jal Northwest Quadrangle, 7.5 minute series.

#### TERRAIN

Local terrain consists of a falt plain characterized by desert pavement.

#### FLORISTICS

The areal floral assemblage consists of unidentified grasses with Yucca spp.,

# CULTURAL RESOURCES

.

No cultural resources were recorded during this reconnaissance.

# RECOMMENDATIONS

ACA recommends clearance for the proposed drill site and suggests that construction proceed without modification of existing plans.

#### South Mattix Unit #28

#### LOCATION

The drill pad will measure 400 ft by 400 ft and will be centered in the: NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub>, Section 22, T24S, R37E, NMPM, Lea County, New Mexico (BLM) Map Reference: USGS Jal Northeast Quadrangle, 7.5 minute series.

#### TERRAIN

Local terrain consists of a flat plain characterized by a desert pavement.

#### FLORISTICS

The areal floral assemblage consists of unidentified grasses with <u>Yucca</u> spp., Ephedra spp., and <u>Opuntia</u> spp.

#### CULTURAL RESCURCES

No cultural resources were recorded during this reconnaissance.

#### RECOMMENDATIONS

ACA recommends clearance for the proposed drill site and suggests that construction proceed without modification of existing plans.

### South Mattix Unit #27

#### LOCATION

The drill pad will measure 400 ft by 400 ft and be centered in the:

 $SE_4^1NW_4^1$ , Section 15, T24S, R37E, NMPM, Lea County, New Mexico (BLM) Map Reference: USGS Jal Northeast Quadrangle, 7.5 minute series.

#### TERRAIN

Local terrain consists of a flat plain characterized by a desert pavement.

#### FLORISTICS

The areal floral assemblage consists of unidentified grasses with Yucca spp, Ephedra spp., and Opuntia spp.

# CULTURAL RESOURCES

No cultural resources were recorded during this reconnaissance.

# RECOMMENDATIONS

ACA recommends clearance for the proposed drill site and suggests that construction proceed without modification of existing plans.

# U. S. Geological Survey

# HCEBS DISTRICT

Amoco Production Co. No. 29 South Mattix Unit SE¼NE¼ Sec. 22-24S-37E Lea County, New Mexico

### Above Data Required on Well Sign

#### CONDITIONS OF APPROVAL

- 1. Drilling operations authorized are subject to compliance with the attached General Requirements for Drilling Operations on Federal Oil and Gas Leases, dated January 1, 1977.
- 2. Notify this office (telephone (505) 393-3612) when the well is to be spudded and in sufficient time for a representative to witness all cementing operations. Attached are names and telephone numbers of Geological Survey and Bureau of Land Management personnel who are available for consultation during construction, drilling, completion, and rehabilitation activities.
- 3. Immediate notice is required of all blowouts, fires, spills, and accidents involving life-threatening injuries or loss of life.
- 4. Secure prior approval of the District Engineer for variance from the approved drilling program and before commencing plugging operations, plugback work, casing repair work, corrective cementing operations, or suspending drilling operations indefinitely.
- 5. Blowout prevention equipment is to be installed, tested, and in working order before drilling below the surface casing and shall be maintained ready for use until drilling operations are completed.

1.1

6. Operations must be in compliance with the provisions of the landowner agreement concerning surface disturbance and surface restoration.